

Faculty Information and Contributions

List of paper publications by faculty in the CAY (2017-18)

Sl. No	Author / Co-author	Title of the Paper Published / Presented	Name of the Journal / Conference / Events / Publisher	Vol No. / Sl. No./ pp. / ISSN No. / ISBN No.	Month and Year of Publication / Presentation	National / International
1.	Dr.Ranganatha Swamy L	Effect Of Using Exhaust Gas Recirculation On The Performance, Combustion & Emission Of Diesel Engine With Manifold Injected Ethanol & Diesel Ethanol Blend.	Universal Journal of Petroleum sciences	Universal Journal of Petroleum Sciences 5 (2017), 20-36	2017	International Conference
2.	Dr.Hemaraju	Design & Fabrication of Pepper Separator Machine	International Journal of current research in life sciences	2319-9490	April-2018	International Conference
3	Sudeep Kumar K S	Impact of Biodiesel Fuel On Durability Of CI Engine- A Review	IOP SCIENCE	DOI:10.1088/1757-899X/376/1/012011	27 June 2018	International Conference

Table B 5.7.1b List of paper publications by faculty in the CAYm1 (2019-20)

Sl. No	Author / Co-author	Title of the Paper : Published / Presented	Name of the Journal / Conference/ Events / Publisher	Vol No. / Sl. No. / ISSN No. / ISBN No. / pp.	Month and Year of Publication / Presentation	National / International
1	Dr.S.H.Manjunath	Experimental study on use of Simarouba glauca biodiesel for CI engine performance	IJMPERD	IJMPERDJUN 202044	JUNE-2020	International Conference
2	Dr.Hemaraju	Impact of sized abrader and normal load on deformation morphology of EN24 Steel subjected to operation	AIP	040008	JAN-2020	
3	Dr.Rangantha Swamy L	Effect of injection timing and duration on port injection of oxygenated fuels in diesel engine applications	ICTCEES-2020	ME013	JULY-2020	

4	Ms. Nischitha K M	Effect of additives on lubricant properties of epoxidised pongamia oil	UGC care journal	ISSN-2394-3114	MARCH-2020	
5	Ms. Nischitha K M	High temperature oxidation and corrosion APS CoCrAlY+Cr ₃ C ₂ -NiCr behaviour of composite coating	JBTC-2020	40735-020-0322-9	JAN-2020	
6	Mr. Santosh kumar T C	Design and development of multifunctional unmanned vehicle for agriculture purpose for using solar power	IIE-2020	ISSN-978-81-945201-08	FEB-2020	
7	Sudeep Kumar K S	Impact of nano material added bio diesel on combustion, performance and emission of CI engine –A review	International Journal of Mechanical and Production	ISSN(P): 2249-6890; ISSN(E): 2249-8001 Vol. 10, Special Issue, Jun 2020, 317-327 © TJPRC Pvt. Ltd.	June-2020	

8	Ramyarani H V	Impact of nano material added bio diesel on combustion, performance and emission of CI engine –A review	International Journal of Mechanical and Production	ISSN(P): 2249–6890; ISSN(E): 2249–8001 Vol. 10, Special Issue, Jun 2020, 317–327 © TJPRC Pvt. Ltd.	June-2020	
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Table B 5.7.1c List of paper publications by faculty in the CAYm2 (2017-18)

Sl. No	Author / Co-author	Title of the Paper Published/ Presented	Name of the Journal / Conference / Events / Publisher	Vol No. / Sl. No. / pp. / ISSN No. / ISBN No.	Month and Year of Publication / Presentation	National / International
1	Dr.Hemaraju	Role of hardness on abrasive wear modes in 3 body wear	International Journal Of Recent Tech & Engineering	International	Sep04-2017	International
2	Nishchitha K M	Cyclic high temp corrosion behavior of plasma sprayed cocraly+CR3 C2-NICR coating	Recent Research Trends In Mechanical Engineering	International	July 13,14-2018	International

3	Sudeep Kumar K S	Impact of biodiesel fuel on durability of CI engine- A review	International Conference On Advances In Manufacturin g, Materials & Energy Engineering (IconMMEE2 018)	Internatio nal (MT012)	02-03 March2018	Internat ional
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Table B 5.7.1 Book Published Details

Sl. No.	Name	Title	Publisher	Year
1.	Operations Research	Dr.RANGANAT HA SWAMY L	Sunstar ISBN-9789- 9386550-77- 4	2019

List of Ph.D. Guided/Guiding

Sl. No.	Guide Name	Name of Ph.D students	University	Field	Year of Registration	Status
	Dr. Manjunath S H	Srinivas Reddy M N	VTU	Alternative fuel	2013	Yet to submit thesis
		Nagesh D	VTU	Materials Engg	2013	Final viva pending
		Sangamesh	VTU	Heat transfer	2015	Final viva finished
2	Dr. Girish K B	Thejaraju R	VTU	Heat transfer	2016	Comprehensive Viva voce Completed
		Puneeth H M	VTU	Nano technology	2017	Course work completed
		Sunil Kumar S	VTU	Nano technology	2017	Course work completed
3	Dr. Ranganatha Swamy L	Keerthi B L	ACU	Alternate fuels	2019	Preparing for course work
		Vijay kumar tile	ACU	Alternate fuels	2019	Preparing for course work

4	Dr. Hemaraju	Mahendra H S	ACU	Tribology	2019	Preparing for course work
		Siddharth	ACU	Fracture Mechanics	2019	Preparing for course work

INHOUSE FACULTY-PURSUING PhD WORKS

Sl. No	Name of the Research Scholar	Research Centre	Name of the Research Guide	Topic	Year of Registration	Status
1	Sudeep Kumar K S	Mangalore institute of technology & Engineering	Dr. C R Rajashekhar	Experimental investigation on the durability of CI engine with graphene as Nano material in Honge Biodiesel Combustion	2015	Comprehensive viva voce completed
2	KS Krupesh	VVCE, MYSURU	Dr G.V Naveen Prakash	Development and characterization of Jute & Banana Hybrid composites	2016	Course work Completed
3	Nishchitha KM	MCE, Hassan	Dr. Y M Shashidhara	studies on Cup drawing of austenitic stainless steel and aluminium alloy blanks using formulated vegetable oil as metal forming lubricant	2017	Comprehensive viva voce completed
4	Keerthi B L	ACU, B.G. Nagar	Dr. Ranganatha Swamy L	Feasibility Of Terminalia Chebula Biodiesel With Diesel In Blended Form Using Nanoparticles Additives On Diesel Engine Performance And Emissions	2018	Course work Completed

5	Mahendra H S	ACU,B.G.Na gar	Dr. Hemaraju	Inelastic behavior Non confirming contact surfaces	2018	Course work Completed
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Sponsored Research

Sl. No.	Title of the Project	Funding Agency	Amount in Rupees	Duration
1	Characterization & Property Evolution of Zirconium Nano reinforced Aluminium alloy Nano Metal Matrix composites(A356.1)	VGST Government of Karnataka K-FIST L1	20,00,000.00	2 Years

Development Activities**Product Development: Batch****2018-19**

SL. NO	USN	Name of the student	Title of the project	Area of work carried out	Name of the guide
1	4BW15ME001	ABHILASH.M	Fabrication of automatic overhead tank cleaning system	Application based	Mr.H.S.Mahendra
	4BW15ME015	GANGADHAR GOWDA.N.S			
	4BW16ME416	YOGESH.S.S			
	4BW15ME050	SHRUTHI.M			
2	4BW15ME043	SHARATH KUMAR.Y.A	Design and fabrication and coconut de-shelling machine	Application based	Dr.Hemaraju
	4BW16ME413	SHIVARAJA.S			
	4BW15ME030	NISHANTH.A.S			
	4BW15ME020	HEMANTH KUMAR.K.M			

Batch-2017-18

SL. NO	USN	Name of the student	Title of the project	Area of work carried out	Name of the guide
1	4BW15ME405	MADHU K M	Design and fabrication of pepper separator machine	Application based	Dr.Hemaraju
	4BW14ME043	SANDESH B S			
	4BW13ME060	PALLAVI K			
	4BW15ME414	SHIVAPRASAD M			
2	4BW14ME057	VIDYA A P R	Design and fabrication of fertilizer mixing and dispensing machine	Application based	Dr.Hemaraju
	4BW14ME045	SANJAY J			
	4BW15ME412	PARAMESHA S T			
	4BW14ME040	RANJAN H S			

Batch-2016-17

SL. NO	USN	Name of the student	Title of the project	Area of work carried out	Name of the guide
1	4BW13ME007	ANIL KUMAR .C	Fabrication of solar operated gas cutter with pesticide sprayer	Application based	Dr.Hemaraju
	4BW14ME401	BABITHA. M.G			
	4BW12ME050	SHREYAS V			
	4BW13ME033	NAGENDRA.C.D			
2	4BW13ME031	MANJUNATH.M.R	Design and fabrication of fertilizer mixing and dispensing machine	Application based	Dr.Hemaraju
	4BW14ME413	PRATHAP.H.A			
	4BW12ME034	MUSTHAF NAZEEM			
	4BW14ME401	BABITHA. M .G			
3	4BW13ME038	NIKHIL.N	Advanced pesticides sprayer	Community services	Prof. H.V. Ramya Rani
	4BW13ME026	MAHENDRA KUMAR.S.N			
	4BW11ME035	MANOHAR.K.B			
	4BW13ME038	NIKHIL.N			

Research laboratories

Department of Mechanical Engineering at BGSIT, B G Nagar has a research centre recognized by Adichunchanagiri University, B G Nagara.

Research laboratories

Sl. No.	Name of the lab.	Name of the equipment used	Description
1	Research Laboratory	Muffel furnace	12 X 6 X 6 inches capacity of 5Kg at a temperature of 1100 ⁰ c
2		Melting furnace	capacity of 5Kg at a temperature of 1000 ⁰ c
3		Stir casting setup	Speed 300rpm
4		Metal dies	200mm X 12mm
5	Research Laboratory	Pin on disc Wear testing Machine	Load 200 N, Speed: 0.26-10m/s, Wear dia: 165 X 8 mm Pin dia: 3 to 12 mm.

